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(21)Application number : 06-132199 (71)Applicant : NOGAMI MASAYUKI
HOYA CORP

(22)Date of filing : 14.06.1994 (72)Inventor : NOGAMI MASAYUKI
OGAWA SHINICHI

(54) MANUFACTURING OF SAMARIUM ION-CONTAINING GLASS

(57)Abstract:

PURPOSE: To produce a Sm²⁺-containing silicate glass excellent in weather resistance (chemical durability) and capable of exhibiting strong PHB phenomenon with excellent reproducibility through the improvement of f-f transition efficiency.

CONSTITUTION: An alumino-silicate glass precursor containing Sm³⁺ ion is vitrified by subjecting it to a heat treatment in a reducing atmosphere. In this process, the Sm³⁺ ion is reduced to Sm²⁺ ion and a Sm²⁺ ion-containing alumino-silicate glass is obtained.

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